

```

graph TD
    BEGIN((BEGIN)) --> S10[LAUNCH SIMULATOR  
S10]
    S10 --> S12[SET DEFAULT STATE  
S12]
    S12 --> S14[ACCEPT USER  
COMMANDS  
S14]
    S14 --> S16[SET INITIAL STATE  
S16]
    S16 --> S18[PERFORM FUNCTIONAL  
SIMULATION  
S18]
    S18 --> S20{MODE?  
S20}
    S20 -- PERFORMANCE --> S26[PERFORM  
PERFORMANCE  
SIMULATION  
S26]
    S20 -- FUNCTIONAL --> S22[COMPUTE FUNCTIONAL  
STATISTICS  
S22]
    S22 --> S24{PROGRAM  
END?  
S24}
    S24 -- YES --> END((END))
    S24 -- NO --> S14
    S26 --> S24
  
```

Fig. 1

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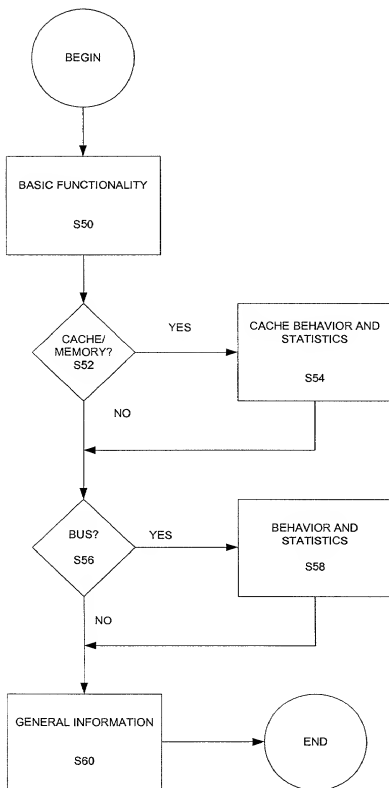


Fig. 2

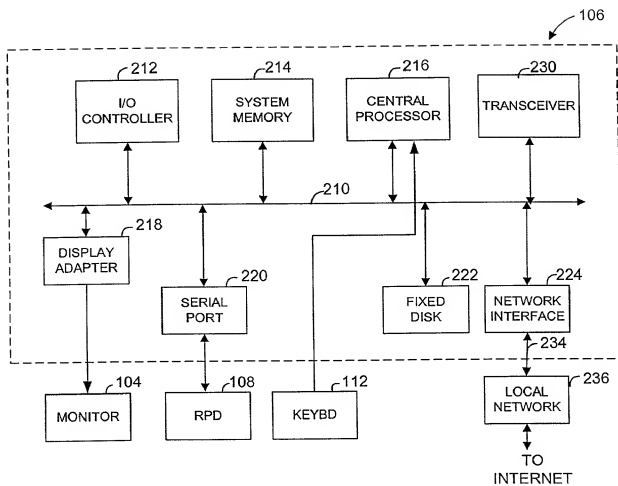


Fig. 3